

**WHAT IS CLAIMED IS:**

1. A method of adjusting tempo of an audio recording to match audio events to video or other audio events in an audio-visual recording, the method comprising:

receiving a reference indicating a location in a recorded signal, the  
5 reference being indicative of a desired audio tempo change location in the recorded signal; and

providing a tempo for an audio recording to be at least partially included in the recorded signal, the tempo being provided to fit the audio recording to a section of the recorded signal marked by the reference.

10 2. The method of claim 1, wherein the reference is indicative of a time location in the recorded signal to coincide a musical event with a particular frame of video in the recorded signal.

3. The method of claim 1, wherein the reference is indicative of a  
15 location in the audio recording to be synchronized with a cursor time reference located in the recorded signal.

4. The method of claim 1, further comprising providing a user interface via a computing device, the user interface providing graphical representations of the recorded signal and of the audio recording to be at least partially included in the recorded signal.

20 5. The method of claim 4, wherein the graphical representations include an audio waveform, wherein the user interface provides for the selective manipulation of characteristics of the audio waveform.

6. The method of claim 5, wherein the selective manipulation provided by user interface includes providing for the increase in length of the audio  
25 waveform, thereby increasing the duration of the audio recording to be at least partially included in the recorded signal.

7. The method of claim 1, wherein the step of providing a tempo for an audio recording to be at least partially included in the recorded signal comprises receiving a indication of a beginning and an end of the audio recording segment.

8. The method of claim 1, further comprising displaying video  
5 thumbnails of video images in the recorded signal on a user interface, the user interface having time indications labeling the video thumbnails according to timing of appearance of video images in the recorded signal.

9. The method of claim 8, further comprising displaying audio  
representations of the audio recording to be at least partially included in the  
10 recorded signal, the audio representations being labeled with the time indications.

10. In a computer program product, a system of determining the tempo of a portion of music such that one tempo phrase ends and another tempo phrase begins at a frame of video or portion of audio as desired by a user of the computer program product, the system comprising:

15 means for receiving a reference indicating a location in a recorded signal; and

means for providing a tempo for an audio recording segment to be included in the recorded signal, the tempo being provided to fit the audio recording segment to a section of the recorded signal marked by the reference.

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11. The system of claim 10, further comprising means for interfacing with a computing device, the interfacing means being configured to provide graphical representations of the recorded signal including video images and of the audio recording segment to be included in the recorded signal.

25 12. The system of claim 10, wherein the means of providing a tempo for an audio recording segment to be included in the recorded signal comprises means for receiving a indication of a beginning and an end of the audio recording segment.

13. The system of claim 10, further comprising means for displaying video thumbnails of video images in the recorded signal on a means for interfacing

with a computing device, the interface means having time indications labeling the video thumbnails according to timing of appearance of video images in the video.

14. The system of claim 13, further comprising means for displaying audio representations of the audio recording segment to be included in the recorded  
5 signal, the audio representations being labeled with the time indications.

15. A processing system comprising:  
a central processing unit (CPU); and  
a storage device coupled to a processor and having stored there  
information for configuring the CPU to:  
10 receive a reference indicating a location in a recorded signal;  
and  
provide a tempo for an audio recording segment to be  
included in the recorded signal, the tempo being provided to fit the audio recording  
segment to a section of the recorded signal marked by the reference.

- 15 16. The system of claim 15, further comprising a presentation device,  
wherein the presentation device is configured to provide a graphical user interface  
which presents portions of the recorded signal and the audio recording segment.

17. The system of claim 15, further comprising an interface device  
20 configured to connect the CPU with a network of computers.

18. The system of claim 15, wherein the storage device having stored files containing video image information.

19. The system of claim 15, wherein the CPU is further configured to assign the provided tempo to the audio recording segment.

- 25 20. The system of claim 15, wherein the CPU is further configured to save a file to the storage device, the file including information related to the video, the audio recording segment, and the provided tempo.

